

Light : Reflection and Refraction

CHAPTER 1

THIS CHAPTER INCLUDES

- Reflection at Plane Surface
- Velocity of Image in a Plane Mirror
- Minimum Length of plane Mirror
- Images Formed in a Pair of Mirrors
- Relation between F and R of a Spherical Mirror
- Mirror formula and Magnification
- Nature and Position of Images for a Spherical Mirror
- Lateral Displacement (d)
- Apparent Depth of a Tank
- Lens Formula
- Magnification Produced by a Lens
- Application in Daily Life
- Assignment

REFLECTION AT PLANE SURFACE

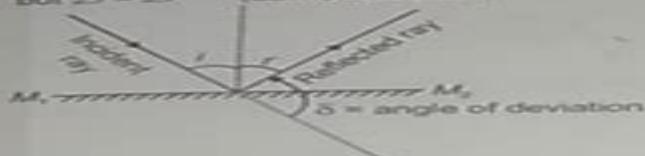
In case of reflection at plane surface such as plane mirror

1. Reflected ray suffers deviation of $\delta = (180^\circ - 2i)$ with respect to the incident ray

Consider the figure shown. Here,

$$\delta = 180^\circ - (i + r)$$

but $\angle i = \angle r$ (Law of reflection)



so $\delta = 180^\circ - 2i$

if $\angle i = 0$ (that is, in case of normal incidence)

then $\delta = \text{maximum} = 180^\circ$

2. If keeping incident ray fixed, mirror is rotated by an angle θ , then reflected ray is rotated through an angle 2θ . The figures here demonstrate this. It is valid for all angles of incidence.



Incident ray coincides with the normal

When the mirror is rotated through an angle θ , normal to the mirror rotates through an angle θ from the initial so angle of incidence becomes θ and reflected ray makes an angle 2θ with the original reflected ray.

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James T. Shipman, Jerry D. Wilson



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